Index of Claims

| Application/Control N | 0. |
|-----------------------|----|
|-----------------------|----|

10/638,981 Examiner

Hung S. Bui

Applicant(s)/Patent under Reexamination

ICE, DONALD A.

Art Unit

2841

Rejected Allowed

(Through numeral)
Cancelled

Restricted

Non-Elected N Interference

**Appeal** A 0 Objected

| CI             | -i                         | Date     |          |   |              |              |                                     |                                     |          |   |  |
|----------------|----------------------------|----------|----------|---|--------------|--------------|-------------------------------------|-------------------------------------|----------|---|--|
| <u> </u>       | im                         |          |          |   |              |              |                                     |                                     |          |   |  |
| Final          | Original                   | 04/14/06 |          |   |              |              |                                     |                                     |          |   |  |
| 1              | 1_                         | =        |          |   |              |              |                                     |                                     |          |   |  |
| 1<br>2<br>3    | 2                          | =        |          |   |              | Г            | П                                   |                                     |          | П |  |
| 3              | 3                          | =        |          |   |              |              |                                     |                                     |          |   |  |
| 4              | 4                          | =        |          |   |              |              |                                     |                                     |          | П |  |
| 5              | 1<br>2<br>3<br>4<br>5      | =        |          |   |              |              |                                     |                                     |          | П |  |
| 6              | 6                          | =        |          |   |              |              |                                     |                                     |          | П |  |
| 6<br>7         | 6<br>7                     | =        |          |   |              | Г            |                                     |                                     |          | П |  |
| 8              | 8                          | =        |          |   |              |              |                                     |                                     |          | П |  |
| 9              | 9                          | =        |          |   | Τ            | Г            |                                     |                                     |          | П |  |
| 10             | 10                         | =        |          |   |              | Г            | Г                                   |                                     |          | П |  |
| 11             |                            | =        |          |   | T            | Г            |                                     |                                     |          | П |  |
| 12             | 12                         | =        |          |   |              | Г            | T-                                  |                                     |          | П |  |
| 12<br>13<br>14 | 13                         | =        |          |   | Г            | Π            |                                     |                                     |          | П |  |
| 14             | 14                         | Ξ        |          |   | Γ            |              |                                     |                                     |          | П |  |
| 16             | 11<br>12<br>13<br>14<br>15 | =        |          |   |              |              |                                     |                                     |          |   |  |
| 17             | 16                         | =        |          |   | Γ            |              |                                     |                                     |          |   |  |
| 18             | 17                         | =        |          |   |              |              |                                     |                                     |          |   |  |
| 18<br>19       | 17<br>18                   | =        |          |   |              |              |                                     |                                     |          | П |  |
| 20             | 19                         | =        |          |   |              |              |                                     |                                     |          |   |  |
| 21             | 20                         | =        |          |   |              |              | Г                                   |                                     |          | П |  |
| 23             | 21                         | Ξ        |          |   |              | Г            |                                     |                                     |          | П |  |
| 21<br>23<br>24 | 22                         | =        |          |   |              |              |                                     |                                     |          | П |  |
| 25<br>26       | 23<br>24                   | =        |          |   |              | Г            |                                     |                                     |          | П |  |
| 26             | 24                         | =        |          |   | Г            | Π            | П                                   | Г                                   |          |   |  |
| 27<br>28<br>29 | 25<br>26                   | =        |          |   |              |              | Ī                                   |                                     |          |   |  |
| 28             | 26                         | =        |          |   |              |              |                                     |                                     |          |   |  |
| 29             | 27                         | =        |          |   |              |              |                                     |                                     |          |   |  |
| 30<br>31<br>32 | 28                         | II       |          |   |              |              |                                     |                                     |          |   |  |
| 31             | 29                         | н        |          |   |              |              |                                     |                                     |          |   |  |
| 32             | 30                         | II       |          |   |              |              |                                     |                                     |          |   |  |
| 33<br>34       | 31                         | II       |          |   |              |              |                                     |                                     |          |   |  |
| 34             | 32                         | п        |          |   |              |              |                                     |                                     |          |   |  |
| 35             | 33                         | II       |          |   |              |              |                                     |                                     |          |   |  |
| 36             | 34                         | ıı       |          |   |              |              |                                     |                                     |          |   |  |
| 37             | 35                         | "        |          |   |              |              |                                     |                                     | 匚        |   |  |
| 38             | 36                         | ıı       |          |   |              |              |                                     |                                     |          | Ш |  |
| 39             | 37                         | II       |          |   |              |              |                                     |                                     | L        | Ш |  |
| 40             | 38                         | =        |          |   | <u> </u>     |              |                                     |                                     |          | Ш |  |
| 41             | 39                         | "        |          | ـــــــــــــــــــــــــــــــــــــــ | L            |              |                                     |                                     | _        | Ш |  |
| 42             | 40                         | =        |          |   | $oxed{\Box}$ | <u> </u>     |                                     | L                                   |          | Ш |  |
| 43             | 41                         | =        | L.,      | L                                       | _            | L            |                                     |                                     | <u> </u> | Ш |  |
| 15             | 42                         | =        |          | L                                       | <u> </u>     | <u> </u>     |                                     | L                                   | <u> </u> | Ш |  |
| 22             | 43                         | =        | Щ        |   |              | <u> </u>     |                                     | L                                   | _        | Ш |  |
| 44             | 44                         | =        | Щ        | <u> </u>                                | <u> </u>     | <u> </u>     |                                     |                                     |          | Ш |  |
| L              | 45                         | Щ        | Ш        |   | L_           | _            |                                     | Ш                                   | <u></u>  | Ш |  |
|                | 46                         |          | L_       | L_                                      | L_           | L_           | L                                   |                                     | <u></u>  | Ш |  |
| <u> </u>       | 47                         | L        |          | <u> </u>                                | <b> </b>     | _            | L_                                  | Ш                                   | L        | Щ |  |
| <u> </u>       | 48                         | Щ        | $\sqcup$ |   | <u> </u>     | <u> </u>     | <u> </u>                            | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u>L</u> | Ш |  |
| <u> </u>       | 49                         |          | Ш        |   | <u> </u>     | $oxed{oxed}$ | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u> | Ш |  |
| 1              | 50                         |          |          |   |              |              |                                     |                                     |          | 1 |  |

| Cla                   | aim      | Ι        |          | _        |          | Date     |          |                                     |  |          | 1 1 | Cla         | im       | Γ        |   |          |    | Date          |          |          |  |          |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|-------------------------------------|--|----------|-----|-------------|----------|----------|---|----------|----|---------------|----------|----------|--|----------|
|                       |          |          |          |          | ı-i      |          | ĪΞ       | Г                                   | Т  | Т        | 1   |             |          |          |   |          |    |               |          |          |  |          |
| =                     | ia l     | 9        |          |          |          |          |          |                                     |  | l        |     | _           | ıal      |          |   |          |    |               |          |          |  |          |
| 2                     | gi       | 4        | 1        |          |          |          |          |                                     |  |          |     | Final       | gi       |          |   |          |    |               |          |          |  |          |
| L                     | Original | 04/14/06 |          |          |          |          |          |                                     | ŀ  |          |     | ш           | Original |          |   |          |    |               | ŀ        |          |  |          |
|                       |          |          | L        | L_       | L        | _        |          | _                                   | _  | _        | ]   |             |          | Щ        | _ |          |    | _             | L        | Ш        | _  |          |
| 1_                    | 1        | =        | L        |          | _        | 匚        |          |                                     | <u></u>  | _        | ]   |             | 51       |          |   |          |    |               | L        | Ш        |  |          |
| 2                     | 2        | =        |          |          |          |          |          |                                     |  | l        | ]   |             | 52       |          |   |          |    |               |          |          |  |          |
| 3                     | 3        | =        |          |          |          |          |          |                                     |  |          | 1 1 |             | 53       |          |   |          |    |               |          |          |  |          |
| 4                     | 4        | =        |          |          |          |          |          |                                     |  |          | 1 1 |             | 54       |          |   |          |    |               |          |          |  |          |
| ⇇                     | 5        | =        | $\vdash$ | Т        | _        |          | $\vdash$ |                                     |  |          | 1 1 |             | 55       | П        |   |          |    |               |          |          |  |          |
| 2<br>3<br>4<br>5<br>7 | 6        | =        | -        | _        | $\vdash$ | -        | -        | $\vdash$                            | _  | -        | 1 1 |             | 56       | Н        |   |          | -  |               | -        | Н        |  |          |
| <del>,</del>          | 7        | =        | $\vdash$ | -        | -        | ┝        | ┝        | $\vdash$                            | ⊢  | ┝        | 1 1 |             | 57       | $\vdash$ | _ |          |    | _             | $\vdash$ |          | $\vdash$   | _        |
|                       |          | -        | <u> </u> | <u> </u> | -        | ⊢        | ⊢        | -                                   | -  | ⊢        | {   |             | 58       | Н        | _ |          | H  | _             | H        | $\vdash$ | -  |          |
| <u>3</u><br>9         | 8        | =        | _        | _        | <u> </u> | $\vdash$ | ├        | _                                   | -  | ⊢        | - 1 |             |          | H        |   |          | _  |               | H        | _        |  |          |
|                       | 9        | =        |          |          | _        |          | <u> </u> | ļ                                   | 1  | _        | 1 1 |             | 59       | Ш        |   |          | _  |               | L        | _        |  |          |
| 0                     | 10       | =        |          |          | _        | L_       | <u> </u> |                                     | _  | <u> </u> | 1 1 |             | 60       |          |   |          | Щ  |               |          |          |  |          |
| 1                     | 11       | =        |          |          |          | _        | _        |                                     | _  |          | 1 1 |             | 61       | Ш        |   |          |    |               |          |          |  |          |
| 2                     | 12       | =        |          |          | Ĺ.       |          |          |                                     |  |          |     |             | 62       |          |   |          |    |               |          |          |  |          |
| 3                     | 13       | =        |          |          |          |          |          |                                     | Γ  |          | ] [ |             | 63       |          |   |          |    |               |          |          |  |          |
| 4                     | 14       | =        |          |          |          |          |          |                                     |  |          | 1   |             | 64       |          |   |          |    |               |          |          |  |          |
| 6                     | 15       | =        |          | Т        | Г        |          |          |                                     |  | Т        | 1   |             | 65       |          |   |          |    |               |          |          |  |          |
| 7                     | 16       | =        | _        | _        |          | -        | $\vdash$ |                                     |  |          | 1 1 |             | 66       | Н        |   |          | -  |               |          |          |  |          |
| 8                     | 17       | Η.       | $\vdash$ |          | $\vdash$ | H        | ┢        | _                                   | -  | ┢        | 1 1 |             | 67       | $\vdash$ | - |          |    |               |          |          |  |          |
| <del>~</del>          |          |          | -        | H        | -        | ├-       | -        | $\vdash$                            |  | ┢        | 1 1 |             |          | Н        | _ | _        | -  | _             | H        | $\vdash$ | $\vdash$   | _        |
| 9                     | 18       | =        | _        |          | _        | <u> </u> | <u> </u> |                                     | ├-   | -        | 1 1 |             | 68       |          |   |          | _  | _             | H        | Н        |  |          |
| 0                     | 19       | =        |          | <u> </u> | <u> </u> | <u> </u> | <u> </u> | _                                   | _  | <u> </u> | 1 1 |             | 69       | Ш        |   | _        | _  | _             | _        |          | -  |          |
| 1                     | 20       | =        |          |          |          |          | <u> </u> | L                                   | Ш  | _        | 1 1 |             | 70       | Ш        |   |          |    |               |          |          |  |          |
| 3                     | 21       | Ξ        |          |          |          |          |          |                                     | _  |          | ] [ |             | 71       |          |   |          |    |               |          |          |  |          |
| 4                     | 22       | =        |          |          |          |          |          |                                     |  |          | ] [ |             | 72       |          |   |          |    |               |          |          |  |          |
| 5                     | 23       | =        |          |          |          |          |          |                                     |  |          | 1 [ |             | 73       |          |   |          | Π. |               |          |          |  |          |
| 6                     | 24       | =        |          |          |          | Г        |          | Г                                   |  |          | 1 1 |             | 74       |          |   |          |    |               |          |          |  |          |
| 6<br>7                | 25       | =        |          | _        |          | Н        | _        |                                     | 1  |          | 1 1 |             | 75       | П        |   |          | _  | $\overline{}$ |          | _        |  |          |
| 8                     | 26       | =        |          |          |          |          |          | $\vdash$                            |  |          | 1 1 |             | 76       | П        |   |          |    |               |          | _        |  |          |
| 9                     | 27       | =        |          | -        |          | Н        | $\vdash$ | $\vdash$                            | ┢  | -        | 1 1 |             | 77       | -        |   |          |    |               | H        | $\vdash$ |  |          |
| 0                     | 28       | =        |          |          |          |          | $\vdash$ | ├-                                  | -  | ┢        | 1 1 |             | 78       | H        | _ |          |    | _             | -        | Н        | -  |          |
| 1                     |          | -        |          |          | _        | H        | _        | $\vdash$                            |  | ⊢        | 1 1 |             | 79       | $\vdash$ | _ |          | _  |               | -        | $\vdash$ | -  |          |
| <u> </u>              | 29       | =        |          | _        |          | H        | _        | <del> </del>                        | ├  | ┝        | 1 1 |             |          | $\vdash$ |   |          | _  | _             | _        | $\vdash$ |  |          |
| 2                     | 30       | =        |          | _        | _        |          | _        | <u> </u>                            |  | <u> </u> |     |             | 80       |          |   |          | _  |               |          |          | -  |          |
| 2<br>3<br>4<br>5      | 31       | =        |          |          |          |          |          |                                     | _  | L_       |     |             | 81       |          |   |          |    |               | $\perp$  |          | Щ  |          |
| 4                     | 32       | п        |          |          |          |          |          |                                     | _  | _        | 1 1 |             | 82       |          |   |          |    |               |          | Ш        |  |          |
| 5                     | 33       | =        |          |          |          |          |          |                                     |  |          |     |             | 83       |          |   |          |    |               |          |          |  |          |
| 6                     | 34       | =        |          |          |          |          |          |                                     |  |          |     |             | 84       |          |   |          |    |               |          |          |  |          |
| 7                     | 35       | =        |          |          |          |          |          |                                     |  |          | ] [ |             | 85       |          |   |          |    |               |          |          |  |          |
| 8                     | 36       | =        | -        | _        | _        |          |          |                                     | Π  |          | 1 1 |             | 86       |          |   |          |    |               |          |          |  |          |
| 9                     | 37       | =        |          |          |          |          |          |                                     | _  | Г        | 1 1 |             | 87       |          |   | _        |    |               |          |          |  |          |
| ō                     | 38       | =        |          |          |          | -        |          | $\vdash$                            | -  |          | 1 1 |             | 88       |          | - |          |    |               | _        |          | Н  |          |
| 1                     | 39       | =        |          |          |          | $\vdash$ | -        | $\vdash$                            | -  | ┢        | 1 1 | $\neg$      | 89       |          |   |          |    |               |          | Н        |  |          |
| 2                     | 40       | -        | _        | _        |          | $\vdash$ | -        | ⊢                                   | -  | -        | 1 } | -           | 90       | -        |   |          |    |               |          | Н        | Н  |          |
|                       |          | -        |          |          | _        | -        | _        | <u> </u>                            | ├  | ├        | 1 } | -           |          | $\vdash$ | - |          |    | _             | _        | Н        |  |          |
| 3                     | 41       | =        | <u> </u> | $\vdash$ | Ь-       | $\vdash$ | $\vdash$ |                                     | -  | ├        |     | $\dashv$    | 91       | Н        |   |          |    |               |          | Н        | <del>                                     </del> |          |
| 5<br>2                | 42       | =        |          |          |          | ш        |          | L.                                  |  | L        | 1 1 |             | 92       |          |   |          | _  |               | L        | Ш        |  |          |
|                       | 43       | =        | Щ        |          |          |          |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>   | <b>.</b> |     |             | 93       | Ш        |   |          |    |               | L        | Ш        | Ш  |          |
| 4                     | 44       | =        |          |          | L        |          |          |                                     | _  | L        |     |             | 94       |          |   |          |    |               | Ш        | Ш        |  |          |
|                       | 45       |          |          |          |          |          |          |                                     |  | L        | ] [ |             | 95       |          |   |          |    |               |          |          |  |          |
|                       | 46       |          |          |          |          |          |          |                                     | Γ  |          |     |             | 96       |          |   |          |    |               |          |          |  |          |
|                       | 47       |          |          | П        |          |          |          |                                     | Π  |          | 1   |             | 97       |          |   |          |    |               |          |          |  |          |
| _                     | 48       | Н        | П        |          |          | Н        | Н        | П                                   | <del>                                     </del> | Г        | 1 1 | $\neg \neg$ | 98       | П        |   |          |    | П             | Т        |          | П  |          |
|                       | 49       | Н        | $\vdash$ | _        | $\vdash$ |          | $\vdash$ | $\vdash$                            | <del>                                     </del> | $\vdash$ | 1 1 | -           | 99       |          |   |          |    | $\vdash$      |          | $\dashv$ | Н  | $\vdash$ |
|                       | 50       | Н        | Н        |          | $\vdash$ | Н        | Н        | $\vdash$                            | <del>                                     </del> | $\vdash$ | 1 1 |             | 100      | $\vdash$ |   | $\vdash$ |    |               | Н        |          | $\vdash$   | -        |
|                       | _00      | ш        |          |          |          |          |          | _                                   |  |          | ı l |             | ,00      |          |   |          |    | ш             | نـــا    |          |  |          |

| Cla     |  |          |  | [  | Date     | <del></del> |              |  |              |                 |
|---------|--|----------|--|--|----------|-------------|--------------|--|--------------|-----------------|
|         |  |          |  |  |          |             |              |  |              |                 |
| Final   | ji   |          |  |  |          |             |              |  | l            |                 |
| 证       | Original   |          |  |  |          |             |              |  |              |                 |
| ļ       | 101  |          | ┝  | ┝  | -        | _           | <del> </del> | ┝  | -            | Н               |
| <b></b> | 102  |          | $\vdash$   |  | $\vdash$ |             |              |  |              | Н               |
|         | 103  |          | -  | ├─   | _        |             | ┢            | <del></del>                                      | -            | Н               |
| -       | 102<br>103<br>104  |          | $\vdash$   | ┢  |          |             | -            | <del>                                     </del> |              | Н               |
|         | 105  |          | $\vdash$   | <del>                                     </del> | -        |             | _            |  |              | Н               |
|         | 105<br>106   | -        | ┢  | <del> </del>                                     | -        | $\vdash$    |              |  | -            | $\vdash$        |
|         | 107  | $\vdash$ | ┢  | ┢  | $\vdash$ | _           | ·            |  | $\vdash$     | $\vdash$        |
|         | 108  |          |  | T  |          |             |              |  |              | П               |
|         | 108<br>109   |          |  | T  |          |             |              |  |              | П               |
|         | 110  |          |  |  |          |             |              |  |              |                 |
|         | 111  |          |  |  |          |             |              |  |              |                 |
|         | 112  |          |  |  |          |             |              |  |              |                 |
|         | 113  |          |  |  |          |             |              |  |              |                 |
|         | 114  |          |  |  |          |             |              |  |              |                 |
|         | 112<br>113<br>114<br>115   |          | L  |  |          |             |              |  |              |                 |
|         | 116  |          |  |  |          |             |              |  |              |                 |
|         | 117  |          |  |  |          |             |              |  |              |                 |
|         | 116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129 |          |  |  |          |             |              |  |              |                 |
|         | 119  |          |  |  |          |             |              |  |              |                 |
|         | 120  |          |  |  |          |             |              |  |              |                 |
|         | 121  |          |  |  |          |             |              |  |              |                 |
|         | 122  |          |  |  |          |             |              |  |              |                 |
| L       | 123  |          |  | Ш.   |          |             |              |  |              | Ш               |
|         | 124  |          | L  | _  | L        |             |              |  |              | Ш               |
|         | 125  |          |  | <u> </u>   | _        |             |              |  | $oxed{oxed}$ | Щ               |
|         | 126  |          | <u> </u>   | _  | ldash    | _           |              |  | _            |                 |
|         | 127  | _        |  | _  | _        |             |              | _  | L.           |                 |
|         | 128  |          |  |  | <u> </u> | _           | _            | ļ  | _            | Ш               |
|         | 129  |          | _  | <u> </u>   | <u> </u> | _           |              | _  |              |                 |
|         | 130<br>131   |          |  |  |          |             | _            |  | <u> </u>     | Н               |
|         | 131  | _        | _  | ⊢  | L        | _           |              | <u> </u>   | <u> </u>     | $\vdash$        |
|         | 132  |          | _  | -  | -        |             | _            | H  | _            | Н               |
|         | 133<br>134   | -        |  | <u> </u>   | $\vdash$ |             |              |  | H            | Н               |
|         | 134  |          | -  | -  | -        | -           | <u> </u>     | -  | $\vdash$     | Н               |
|         | 135<br>136   |          |  | $\vdash$   | -        | _           | -            | $\vdash$   | $\vdash$     | ${\mathbb H}$   |
|         | 137  | H        | <u> </u>   | $\vdash$   | -        | $\vdash$    | ⊢            | $\vdash$   | $\vdash$     | $\vdash$        |
|         | 138  | H        |  |  | $\vdash$ |             |              |  | H            | $\vdash \vdash$ |
|         | 139  | $\vdash$ | l  | <del> </del>                                     |          | -           | $\vdash$     |  | $\vdash$     | H               |
|         | 140  | Н        | _  | <del>                                     </del> | $\vdash$ | $\vdash$    |              |  | _            | Н               |
|         | 141  | Н        |  | $\vdash$   |          | Н           |              | $\vdash$   | Н            | $\vdash$        |
|         | 142  | Н        | <del>                                     </del> | $\vdash$   |          |             | т            |  | Т            | H               |
|         | 143  |          |  |  |          |             |              |  |              | П               |
|         | 144  |          | <u> </u>   |  |          |             |              | П  |              | П               |
|         | 145  | П        | Т  | Г  |          |             |              |  |              | П               |
|         | 146  |          |  |  |          |             |              | П  | Г            | П               |
|         | 147  | П        |  |  |          |             |              | П  |              | П               |
|         | 148  | $\Box$   |  | Г  |          |             | П            |  | Г            | П               |
|         | 149  |          |  |  |          |             |              |  | П            | П               |
|         | 150  |          |  |  |          |             |              |  |              |                 |
|         |  |          |  |  |          |             |              |  |              |                 |